

**REMARKS**

This application was filed with 25 claims. Applicant has canceled claims 1-14. Applicant has amended claim 25 and added claim 26. Therefore, claims 15-26 are currently pending. No new matter has been introduced by the amendments.

The Examiner indicated that the invention, as claimed, actually contains two distinct inventions: invention I, claims 1-14, and invention II, claims 15-25.

Applicant hereby elects invention II, claims 15-25 to be examined. This election is made without traverse. Applicant elects Specie A: a sequence read which is DNA in order to provide a complete reply to the restriction. With regard to the claims readable thereon, all of pending claims 15-26 are generic claims thereto. Applicant also elects the specie of the identifiable characteristic described in claim 16, which is sequence reads having similar sizes. Claims 15, 16, 25, and 26 are claims that are readable thereon. This election is made without traverse.

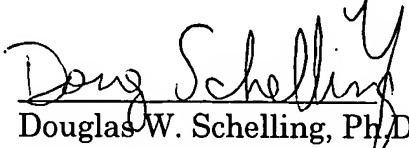
**Claim Amendments**

Claim 25 has been amended to include various identifiable characteristics. Support for the amendment to claim 25 is found in claims 16-22 and within the specification on pages 9-11. No new matter has been added by the amendment.

Applicant added claim 26. Support for added claim 26 is found within the specification on pages 9-11 and claim 24. No new matter has been added by the amendment.

The Commissioner is authorized to charge any deficiency or credit any overpayment associated with the filing of this Response to Deposit Account 23-0035.

Respectfully submitted,

  
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